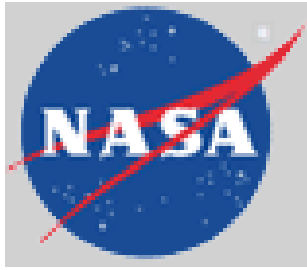


Global Hydrology Resource Center

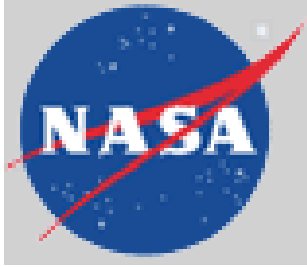
Marilyn Drewry
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GHRC Organization

GHRC Managers	Michael Goodman Danny Hardin	NASA UAH
ITSC/UAH Director	Dr. Sara Graves	UAH
GHRC Web Team Lead	Danny Hardin	UAH
GHRC Data Management Lead	Marilyn Drewry	UAH
GHRC/ITSC Development Lead	Helen Conover	UAH
Subsetting	Matt Smith	UAH
Data Mining, Web Services	Ken Keiser	UAH
ESML	Dr. Rahul Ramachandran	UAH



GHRC Organization

IMS Server

Marilyn Drewry, Mary Nair

Valids

Marilyn Drewry

**Guide, Statistics
Guide Author**

Mary Nair
Richard Wohlman

CINTEX

Helen Conover

User Services

Sherry Harrison, Richard Wohlman

Archive

Steve Jones

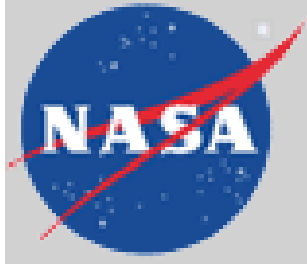
***Home office:
GHRC***

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**(sgraves, dhardin, hconover, mdrewry, msmith, sjones,
kkeiser, rramachandran, mnair, sharrison, rwohlman)**



GHRC Planned Datasets

CAMEX-4

Spring-Summer 2002

~ 42 datasets

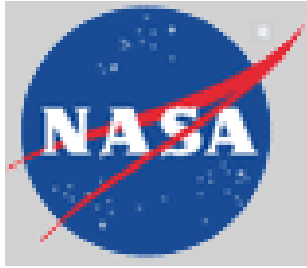
15 completed

~27 more

ACES

Fall 2002

~ 8 datasets



GHRC Valids and Guide Issues

GUIDE

Guide System

- Ready to go to new System
- New Datasets are not in old system

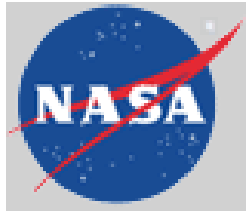
VALIDS

Inter-DAAC Coordination of Valids and Definitions

- Notice of Recent Keyword Changes (~ GCMD Page)
- Notice of Changed Definitions
- Suggest use of AMS definitions of meteorological terms

GCMD Coordination

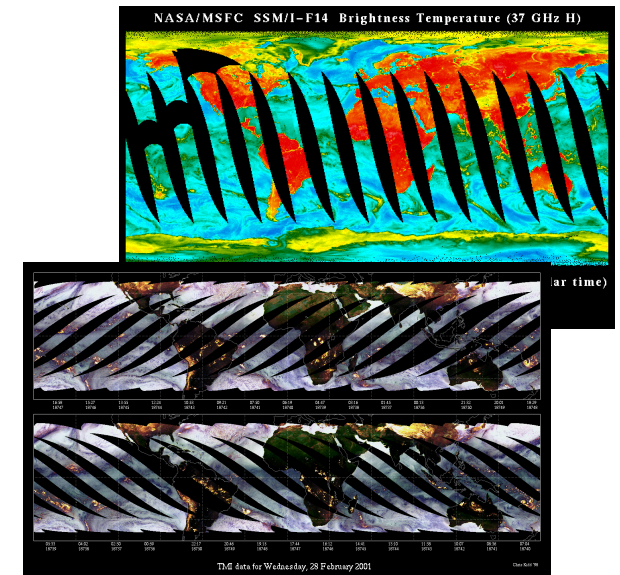
- Schedule of valids review/approval



Some of What's Happening at GHRC

Reprocessing

SSM/I Tb and products F13, 14, 15
TRMM Microwave Imager (TMI)
Wentz Ocean Products



OTTER

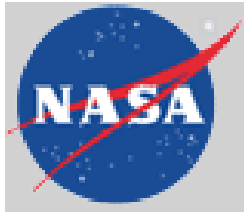
Order Tracking Tool and Error Reporting System v1.0

Migrations

GHRC Archive, Database platform and version migrations

Statistics

SCRS, EDGRS, ESIP



ESML

GHRC Tools

Earth Science Markup Language*
<http://esml.itsc.uah.edu>

Subsetting

HSA* – HEW Subsetting Appliance*

HEW+infrastructure software for ECS

(installed for DAAC Ops at NSIDC, EDC; soon at GSFC)

HEW* - Dataset Independent Subsetter for

HDF-EOS files

Modis-land, Modis-air

Stitcher

SPOT*

SSM/I Subsetter

NLDN Data Locator and Subsetter

SCF - Subsetter/Format Converter*

<http://subset.itsc.uah.edu/>

Data Mining

ADaM - Algorithm Develop and Mining System

<http://datamining.itsc.uah.edu>

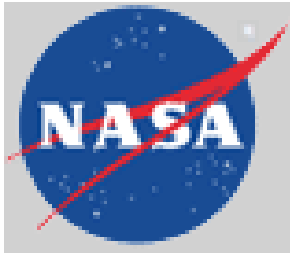
Coincidence

Satellite Coincidence Search Engine

<http://ghrc.msfc.nasa.gov/ghrc/search.html>

OTTER

Order Tracking Tool and Error Reporting System, v1.0



GHRC Systems

Microwave
SGI Origin 2000
IRIX 6.5.12
Oracle 8.0.5.0.0
EDG Client,
Server
EDG Guide
Server
HyDRO Web
Server
EDG Database >
migrating
OpenSSH 3.1
Apache 1.3.20

Dobbs
SGI Origin
2000
IRIX 6.5.12

Archive
Processing

OpenSSH 3.1
Apache 1.3.20

Moby
PC- Dell
PowerEdge 2450
RedHat 6.2>
7.3 in 2 months
Data Server
FTP

OpenSSH 3.1
Apache 1.3.20

Prodigy
PC- Dell
PowerEdge 2450
RedHat 6.2

Database Server
Oracle 8i



4th Convection and Moisture Experiment

- **CAMEX-4 Hurricane Field Experiment**
 - 16 Aug to 24 Sep 2001 based in Jacksonville FL
 - Penetrate hurricanes from the Caribbean and along the east coast of US
 - Instrumented ER-2 and DC-8 aircraft, Aerosonde uninhabited aerial vehicle, satellite, and surface data sets
 - Airborne dropsondes and surface rawinsondes, surface and airborne radar reflectivity and precipitation products, passive microwave atmospheric and hydrological data sets, atmospheric electric fields, cloud microphysics, atmospheric state parameters (e.g., temperature, humidity, etc.), atmospheric measurements from airborne lasers, and satellite subsets from TRMM TMI & PR, GOES, MODIS, QuikSCAT.



ALTUS Cumulus and Electrification Study

ACES

- July-Aug 2002 based at Key West, FL
- Uninhabited aerial vehicle (ALTUS) with magnetic & electric field detectors and optical lightning sensors
- Data products
 - Electric & magnetic field
 - Atmospheric conductivity
 - Lightning morphology (optical and near-infrared)



ALTUS takes off with ACES payload during a test flight